

=> d his

(FILE 'HOME' ENTERED AT 11:52:42 ON 14 NOV 2001)

FILE 'CAPLUS' ENTERED AT 11:52:49 ON 14 NOV 2001

L1 1394 S (ION OR HE OE HE! OR AR OR NE OR NE! OR ARGON OR NEON OR HELI
L2 1430 S (ION OR HE OR HE! OR AR OR NE OR NE! OR ARGON OR NEON OR HELI
L3 14177 S (ION OR HE OR HE! OR AR OR NE OR NE! OR ARGON OR NEON OR HELI
L4 502 S ((ION OR HE OR HE! OR AR OR NE OR NE! OR ARGON OR NEON OR HEL
L5 544372 S (PATTERN OR PATTERNING OR MASK OR MASKING OR MASKED)
L6 373 S L3 AND L5
L7 64 S L1 AND L5
L8 16 S L4 AND L5
L9 326 S L6 NOT (WIND OR AIR OR ATMOSPHER? OR METEOR?)
L10 52 S L7 NOT (WIND OR AIR OR ATMOSPHER? OR METEOR?)
L11 9031 S (ION OR HE OR AR OR NE OR ARGON OR NEON OR HELIUM) (15A) (MIXIN
L12 29 S L11(P) (MASK? OR PHOTOMASK?)

=> log y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

426.33

426.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

-70.56

-70.56

STN INTERNATIONAL LOGOFF AT 12:19:44 ON 14 NOV 2001

> d his

(FILE 'HOME' ENTERED AT 10:08:33 ON 14 NOV 2001)

FILE 'CAPLUS' ENTERED AT 10:08:45 ON 14 NOV 2001

L1 59454 S (HE OR HE! OR HELIUM OR NE OR NEON OR NE! OR AR OR ARGON OR A
L2 1756 S L1(P) (MASK? OR PHOTOMASK? OR PATTERN?)
L3 139 S L2 AND (MULTILAYER? OR ((LAMINATED OR MULTI OR MULTIPLE OR AL

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

380.36

380.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-81.73

-81.73

STN INTERNATIONAL LOGOFF AT 10:17:29 ON 14 NOV 2001

L13 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 1989:146339 CAPLUS
 DN 110:146339
 TI Direct **formation** of ferromagnetic manganese-bismuth layers with
 perpendicular **magnetic** anisotropy by **ion**-beam mixing
 AU Kido, Yoshiaki; Suzuki, Motofumi
 CS Toyota Cent. Res. and Dev. Lab. Inc., Nagakute, 480-11, Japan
 SO Mater. Lett. (1988), 7(5-6), 219-23
 CODEN: MLETDJ; ISSN: 0167-577X
 DT Journal
 LA English
 CC 77-1 (Magnetic Phenomena)
 Section cross-reference(s): 56
 AB **Multilayers** of Mn/Bi deposited on glass, Al, and Si substrates
 were irradiated with 400 keV Xe+ at 80-550 K. **Irradn.** from room
 temp. up to 500 K leads to the **formation** of ferromagnetic Mn-Bi
 layers with the hexagonal c-axis oriented perpendicular to the substrate
 surface. Strong perpendicular **magnetic** anisotropy is obsd. for
 the above specimens using x-ray diffraction and a vibrating sample
magnetometer. Quenched metastable phases with ferromagnetism are
 not obtained for the Mn(25-50 at. %)/Bi **multilayers** irradiated
 with 400 keV Xe+ at 80-550 K. The dependence is discussed of the
magnetic properties of the **ion**-mixed layers on
irradn. temp., **ion** dose, and substrate species.
 ST xenon ion beam mixing manganese bismuth; **multilayer** manganese
 bismuth mixing; ferromagnetism manganese bismuth mixing; anisotropy
magnetic manganese bismuth mixing
 IT Glass, oxide
 RL: USES (Uses)
 (ion mixing of manganese-bismuth **multilayers** on)
 IT Coercive force, **magnetic**
Magnetic anisotropy
Magnetic hysteresis
Magnetic induction and Magnetization
 (of bismuth-manganese **multilayers** after xenon-ion-induced
 mixing)
 IT 12626-89-0P, Manganese silicide
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (**formation** of, by **ion** mixing of manganese-bismuth
multilayers on silicon)
 IT 12010-50-3P, BiMn 119675-63-7P 119675-64-8P, Bismuth 50, manganese 50
 (atomic)
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (**formation** of, by **ion**-beam mixing of
 manganese-bismuth **multilayers**)
 IT 7429-90-5, Aluminum, uses and miscellaneous 7440-21-3, Silicon, uses and
 miscellaneous
 RL: USES (Uses)
 (ion mixing of manganese-bismuth **multilayers** on)
 IT 7439-96-5, Manganese, uses and miscellaneous
 RL: USES (Uses)
 (mixing of bismuth layers with, by xenon ion implantation)
 IT 7440-69-9, Bismuth, uses and miscellaneous
 RL: USES (Uses)
 (mixing of layers of manganese with, by xenon ion implantation)
 IT 24203-25-6, Xenon(1+), uses and miscellaneous
 RL: USES (Uses)
 (mixi

5 ANSWER 48 OF 153 CAPLUS COPYRIGHT 2001 ACS
AN 1987:589130 CAPLUS
DN 107:189130
TI Circuit design and properties of **patterned ion**
-implanted layers for field access bubble devices
AU Nelson, T. J.; Muehlner, D. J.
CS Bell Commun. Res., Murray Hill, NJ, 07974, USA
SO Magn. Bubbles (1986), 215-90. Editor(s): Jouve, H. Publisher: Academic,
London, UK.
CODEN: 56CWAD
DT Conference; General Review
LA English
CC 77-0 (Magnetic Phenomena)
AB A review with 75 refs. on the prepn. of magnetic recording disks by ion
implantation of ferrite garnets.
ST review recording disk implantation ferrite garnet
IT Ion beams, chemical and physical effects
(implantation from, into ferrite garnets in magnetic recording disk
fabrication)
IT Ferrite substances
RL: PRP (Properties)
(garnets, magnetic recording disk fabrication by ion implantation into)
IT Recording apparatus
(**magnetic** disks, from ion-implanted bubble **layers**)